Amendments to the Claims

The following Listing of Claims will replace all prior versions and listings of claims in the application.

Listing of Claims

 (Currently amended) A method for synchronizing data on a device in communication with a client system, said method comprising:

receiving, by a control virtual driver executing on a server, an event notification that a device, is in communication with a client system via a USB connection, is bound in part

binding, by a redirector virtual driver executing on the server, the event notification to a port number associated with within a virtual communication channel to generate binding information associated with the device:

mapping, by a driver mapping module executing on the server and responsive to receipt of the notification, the device into a user session hosted by the a-server communicating with said client system via a presentation-level protocol and via the port referenced in the binding information:-

executing, by said server within the user session, an instance of an application; and synchronizing, by a synchronization application, a collection of data on said device with a collection of data accessible from said user session as a result of the execution of said application instance.

- 2. (Previously presented) The method of claim 1 wherein mapping the device further comprises mapping a device communicating with the client system via a WI-FI communication protocol.
- 3. (Previously presented) The method of claim 1 wherein mapping the device further comprises mapping a device communicating with the client system via an IR serial communication protocol.
- 4. (Previously presented) The method of claim 1 wherein said device communicates with the client system using a Bluetooth serial communication protocol.

- 5. (Previously presented) The method of claim 1 wherein said device communicates with the client system using a wireless USB/ultra-wideband wireless communication protocol.
- 6. (Previously presented) The method of claim 1 further comprising:

synchronizing a collection of data on the device with a collection of data accessible from the user session as a result of the execution of an application instance that uses socket communication for inter-process communications; and

hooking a socket call within the user session.

- 7. (Original) The method of claim 6 wherein said hooking is virtual loop-back address hooking.
- 8. (Original) The method of claim 6 wherein said hooking is virtual IP address hooking.
- 9. (Previously presented) The method of claim 1 further comprising:

synchronizing a collection of data on the device with a collection of data accessible from the user session as a result of the execution of an application that uses socket communication for inter-process communications; and

hooking a socket call on the server.

- 10. (Cancelled).
- 11. (Original) The method of claim 1 wherein the client system is a proxy client.
- 12. (Original) The method of claim 11 wherein the proxy client is hosted on the same server supporting the user session.
- 13. (Original) The method of claim 11 wherein the proxy client is hosted on a different server than the server supporting the user session.
- 14. (Currently amended) The method of claim 1, further A method for synchronizing data on a

device in communication with a client system, said client system communicating with a server using a presentation level protocol, said method comprising:

determining the identity of the a-device in communication with said client system; and determining that the device is a member of a registered device class:

creating a notification indicating that the device is in communication with the client system and that the device is bound in part to a port number within a virtual communication channel:

directing the notification to an instance of an application executing within a user session hosted by the server and

synchronizing a collection of data on said device with a collection of data accessible from said user session as a result of the execution of said application instance.

15-18. (Cancelled).

19. (Currently amended) A system for synchronizing data on a device in communication with a client system, the system comprising:

a client system executing a presentation-level protocol to communicate with a server system, said client system including an event manager to generate event notifications based on a communication received from a device interfacing with said client system:

the device communicating with said client system and having a collection of data;

a control virtual driver executing on the server system to receive the event notifications;
a redirector virtual driver executing on the server system to bind the event notifications
the device-bound in part to a port number associated with within the at least-one-a virtual
communication channel to generate binding information associated with the device; and

the server system communicating with said client system via a presentation-level protocol, and hosting host-at least one user session executing an instance of an application used to synchronize the collection of data on said device with a collection of data accessible from said user session.

20. (Original) The system of claim 19 wherein said event manager is a Plug and Play event manager and said event notification is a Plug and Play event notification.

21. (Previously presented) The system of claim 19 further comprising:

an application instance using socket communication for inter-process communications; and

the application instance synchronizing the collection of data on the client with the collection of data accessible from the server by allowing the server to hook a socket call made by the application instance.

- 22. (Original) The system of claim 21 wherein the socket call is hooked within the user session.
- 23. (Original) The system of claim 21 wherein the socket call is hooked using virtual IP address hooking.
- 24. (Original) The system of claim 21 wherein the socket call is hooked using virtual loop-back address hooking.
- 25. (Currently amended) A computer-readable medium having instructions executable by a processor to synchronize data on devices communicating with a client system with data on a server, the computer readable medium comprising:

instructions for receiving, by a control virtual driver executing on a server, and event a notification that a device, is in communication with a client system via a USB connection, is bound in part to:

instructions for binding, by a redirector virtual driver executing on the server, the event notification to a port number associated with within a virtual communication channel to generate binding information associated with the device;

instructions for mapping, <u>by a driver mapping module executing on the server and</u> responsive to receipt of the notification, the device into a user session hosted by <u>the a-server</u> communicating with said client via a presentation-level protocol <u>and via the port referenced in the binding information</u>;

instructions for executing, by the server within the user session, an instance of an application; and

instructions for synchronizing, by a synchronization application, a collection of data on said device with a collection of data accessible to said session as a result of the execution of said application instance.

- 26. (Previously presented) The computer readable medium of claim 25 wherein said device communicates with the client system using a wireless USB/ultra-wideband wireless communication protocol.
- 27. (Previously presented) The computer readable medium of claim 25 wherein said device communicates with the client system using an IR serial communication protocol.
- 28. (Previously presented) The computer readable medium of claim 25 wherein said device communicates with the client system via a Bluetooth serial communication protocol.
- (Previously presented) The computer readable medium of claim 25 further comprising: instructions for executing an instance of an application using socket communication for inter-process communications; and

instructions for synchronizing a collection of data on said device with a collection of data accessible to the user session include instructions for hooking a socket call within the session.

- 30. (Previously presented) The computer readable medium of claim 29 wherein said hooking is virtual loop-back address hooking.
- 31. (Previously presented) The computer readable medium of claim 29 wherein said hooking is virtual IP address hooking.
- 32. (Currently amended) The computer readable medium of claim 25 wherein said application instance uses socket communication for inter-process communications and the computer-readable medium program means for synchronizing a collection of data on said device in communication with the client system further comprises: instructions computer readable program means for hooking a socket call on the server console.

33. (Cancelled).

34. (Currently amended) A-The computer-readable medium of claim 25, further having instructions executable by a processor to synchronize data on a device in communication with a client system with a collection of data accessible from a server, the computer-readable medium comprising:

instructions for determining the identity of the a-device in communication with the client system via a USB connection, said client system communicating with a server using a presentation-level protocol; and

instructions for determining that the device is a member of a registered device classsinstructions for creating a notification indicating that the device is in communication with the client and that the device is bound in part to a port number within a virtual communication channel:

instructions for directing the notification to an instance of an application executing within a user session hosted by a server; and

instructions for synchronizing, responsive to the notification, a collection of data on said device in communication with the client system with a collection of data accessible to said server as a result of the execution of said application instance.

35-39. (Cancelled).

40. (Currently amended) The A-method of claim 14, wherein the device communicates for synchronizing data on a device in communication with a client system, said method comprising: determining the identity of a device in communication with the client system via a USB connection:

determining that the device is a member of a registered device class;

creating a notification indicating that the device is in communication with the client
system and that the device is bound in part to a port number within a virtual communication
channel:

directing the notification to an application executing on a server communicating with the client system via a presentation level protocol; and

synchronizing, responsive to the notification, a collection of data on said device in communication with the client system with a collection of data accessible from said server as a result of the execution of said application.

- 41-43. (Cancelled).
- 44. (Currently amended) The A-system of claim 19, wherein the device interfaces with the client system via a USB connection for synchronizing data on a device in communication with a client system, comprising:
- a client system communicating with a server system via a presentation level protocol, said client system including an event manager to generate event notifications based on a communication received from the device interfaced with said client system via a USB connection:
- a device communicating with said client system, said device having a collection of data and the device bound in part to a port number within the at least one virtual communication channel;
- a server system communicating with said client system and executing an application used to synchronize the collection of data on said device in communication with the client system with a collection of data accessible to said server.
- 45. (Original) The system of claim 44 wherein said event manager is a Plug and Play event manager and said event notification is a Plug and Play event notification.
- 46. (Currently amended) The method of claim 1, further A method for synchronizing data on a device in communication with a client system, said method comprising:
- providing a client-system communicating with a server using a presentation-level protocol;

intercepting at least one device enumeration method in a session hosted by the server, said enumeration method enumerating at least one device communicating with the clients

receiving notification that the at least one device is bound in part to a port number within a virtual communication channel:

mapping, responsive to receipt of the notification, said at least one device into a user session hosted by the server based on the results of said enumeration method, said user session including an executing instance of an application; and

synchronizing a collection of data on said at least one device with a collection of data accessible from said user session as a result of the execution of said application instance.

47-48. (Cancelled).